

# modern castings

## index for 1959

Published by AMERICAN FOUNDRYMAN'S SOCIETY  
Golf and Wolf Roads, Des Plaines, Illinois

JAN-DEC. VOL. 35-36

Month	Page
Gating & Raising Course	Oct. 115
Gray Iron Metallurgy Course	Aug. 103
and Marquette University Present	
Tips on Casting Costs	Feb. 109
Outlines Core Sand Basic Principles	Oct. 115
Plant Layout Course	Jan. 113
Preventive Maintenance Course	Dec. 85
Trustees Urge Building of Center	Feb. 109
Twin City Traveling Foundry	Dec. 73
Wentworth Institute Forms Chapter	May 128
Wentworth Institute Student Chapter	July 106
American Society for Metals Elects	
A. R. Putnam	June 130
American Welding Society & AFS Committee Study Welding	July 102
Angels & Missiles: Joan C. Joseph	July 28
Antes, H. W. & R. E. Edelman: Starch	
Content Effect on Rammed Graphitic	
Mold Material for Casting Titanium	March 97
Appleman, B. M.: Statistical Controls	Feb. 62

Month Page

### A

Abrasion-Resistant Castings from Martensitic White Irons: T. E. Norman, A. Solomon & D. V. Doane	April 104
Acid Cupola Melting for Ductile Iron: H. E. Henderson	Nov. 661
Adams, C. M. Jr.: Feed A Casting	July 104
Aerospace Industries Association Tells Needs	Aug. 20
Ahearn, P. J., G. W. Forn & J. F. Wallace: Castings Tensile Properties	Feb. 45
Ahearn, P. J., K. D. Holmes & J. Zotos: High Strength Steel Castings	July 65
Ahi, H. C.: Non-Ferrous Metal Melting	May 154
Aid for Design Engineers: J. J. Henry	March 53
Air Pollution Control Association to Receive Recommendations	March 117
Aircraft Castings Association Formed	April 138
<b>AIRCRAFT CASTINGS</b>	
Aerospace Casting Needs	Aug. 20
Aluminum Castings for Missiles	Nov. 33
Angels & Missiles: Joan C. Joseph	July 28
Castings, American Brake Shoe Co.	Feb. 29
Design Productivity of Magnesium Alloy Casting: C. I. Miller & W. Krzymowski	July 25
Designers Look at Light Metal Castings: A. R. Head	March 61
Foundrymen Vs. Aero-Engineers: Y. J. Elizondo & J. H. Rassenfoss	Dec. 45
H & S Metal Products Co. Wing Casting	Oct. 5
Magnesium Casting Alloy EK31XA: K. E. Nelson	Oct. 71
Quality Castings: R. L. Hanson	Aug. 26
Steel: Y. J. Elizondo	June 79
Steel Castings with 290,000 psi tensile strength	Aug. 30
Steel, New Look: W. H. Dunn	Oct. 30
Air-Set Process: D. R. Chester	Nov. 153
Al-7Mg Alloy Castings, Principles for Producing: W. H. Johnson & J. G. Kura	Sept. 73
Allis-Chalmers Mfg. Co. Uses Plastics: J. B. Ferguson	July 104
Alloy Casting Institute, Election of Officers	Sept. 29
Alloy Casting Institute Tells Why Use High Alloy Castings: E. A. Schoefer	March 34
Alperin, B. J. & C. C. Carson: Hydrogen Determination for Steel Foundry Control	Feb. 50
<b>ALUMINUM</b>	
Aircraft Castings, American Brake Shoe Co.	Feb. 29
Alloy Fluidity Test: M. C. Flemings, H. F. Conrad & H. F. Taylor	Aug. 86
Cast Engine	March 5
Castings for Missiles	Nov. 33
Cyclic Permanent Mold Operation: C. L. Goodwin & H. Y. Hunsicker	July 81
Die Casting Metal Cost: G. H. Found & J. Lapan	May 88
Engine Block	May 5
Foamed: J. R. Kreigh	Feb. 37
Gas Measurement: H. V. Sulinski & S. Lipson	Jan. 102
H & S Metal Products Co. Wing Casting	Oct. 5
Healing Hot Tears with Vibrations	Dec. 30
Hexachloroethane Mold Coating	Nov. 33
Hot Cracking Test for Light Metal Casting Alloys: E. J. Gamber	April 99
Is Quality Under Control?: D. L. La Velle	Aug. 14
New Die-Casting Alloy: J. H. Moorman & E. V. Blackman	Sept. 70
Outboard Motors Used in Heat Treatment	Oct. 5
Permanent Molds for Producing Castings	Feb. 5
Producing Sound Al-7Mg Alloy Castings: W. H. Johnson & J. G. Kura	Sept. 73
Silicon Alloy, Hyper-eutectic: R. Kissling & O. Tichy	June 67
Ultrasonic Attenuation: H. Smolen & H. Rosenthal	May 55

Month Page

American Brake Shoe Co., 290,000 psi Tensile Strength Castings	Aug. 5
American Brake Shoe Co. Uses Outboard Motors	Oct. 5
American Brake Shoe Castings for Aircraft	Feb. 29
American Chain & Cable Co. Uses Radiography	July 127
American Die Casting Institute, Officers	Nov. 130
American Die Casting Institute Tells Why Use Die Castings: D. Laine	March 45
<b>AMERICAN FOUNDRYMAN'S SOCIETY</b>	
Advisory Committee Urges Continuation of Rochester High Foundry Courses	June 108
Alabama Student Chapter Holds Show and American Welding Society Committee Study Welding	May 131
Apprentice Contest Winners	July 102
Awards—Gold Medal, Scientific Merit, Service Citation	May 53
Awards, Service Citations	Feb. 110
Awards, Scientific Merit	April 46
Basic Concepts Committee Investigates Sand Density	March 126
Buyers Directory	June 105
Buyers Directory Distribution	Sept. 18
Buyers Directory To Be Published	May 6
<b>63rd Castings Congress &amp; 2d Enclosed Castings Show</b>	
Castings Congress Report	May 40
Castings Congress Technical Program Report	May 47
Castings Congress Technical Report	June 37
Convention Committees	April 42
Engineered Castings Show Report, 1	May 43
Engineered Castings Show Report, 2	June 34
Engineered Castings Show Report, 3	July 33
Exhibitors Program	April 40
Chapter Officers Conference	April 47
Director at Large Elected	April 106
Elections	April 121
Exchange Paper Presented at International Foundry Congress	May 52
Exchange Papers Sponsored	Nov. 119
F.E.F. Trustee Appointed	Sept. 125
Film, New Educational	Feb. 109
Foundry Instructors Guide	Dec. 67
Foundry Instructors Seminar	Aug. 104
Hoy Lecturer, H. M. St. John	April 104
Hoy Lecturer, 1960, Announced	Nov. 118
Hoy Lecturer, 1961, Announced	Dec. 67
Malleable Division Reorganized	Sept. 117
Malleable Melting Variables Book	May 127
New Director	Sept. 122
Nominates Officers, Directors	Feb. 111
Officers Duties Realigned	Sept. 116
Ontario Chapter Sponsors T&RI Program	July 100
Parke, A. R., European Technical Writer	May 125
Presidents from 26 Chapters	April 119
Research Projects (10) Sponsored	Sept. 117
<b>Regional Foundry Conferences</b>	
Empire State	Dec. 60
Michigan	Dec. 56
Missouri Valley	Nov. 114
New England	Dec. 58
Northwest	Jan. 118
Northwest	Nov. 116
Ohio	Dec. 62
Penn State	Aug. 108
Purdue Metals	Jan. 116
Southeastern	April 124
Texas	May 120
West Coast	May 122
Wisconsin	April 122
Safety Award Won by Modern Castings	July 5
Sponsors European Tours	July 102
Technical Council Plans	July 99
Twin City Chapter Castings Seminar: J. D. Johnson	June 110
<b>Training &amp; Research Institute</b>	
Board of Directors Approve Building	March 5
Building Committee Approves Plans	Sept. 123
Building Plans to Be Finalized	April 120
Courses Announced	Jan. 114
Fundamentals of Patternmaking	Nov. 122

### B

Baldwin-Lima-Hamilton Corp. Propeller	June 31
Barker, Prof. George J. Retires	March 42
Barrel Finishing Method	Jan. 42
Basic Cupola Melting of Ductile Iron: J. T. Williams	Nov. 669
Bassett, R. G. & T. R. Bergstrom: Radiography, Microstructure & Mechanical Properties of Cast Magnesium-Thorium-Zirconium Alloy HK31A	April 79
Beardsley & Piper Christmas Scholarships	Dec. 35
Beardsley & Piper Film, "Cast Metals and You."	April 119
Beckham, J. W.: Castability & Maximum Service from Cast Products	July 43
Bending Techniques for Evaluation of Cast Materials & Structures: J. C. Graddy	March 90
Bentonite, Birth of: A. Dorfmüller, Jr. & J. M. Sweeney	Feb. 33
Bergstrom, T. R. & R. G. Bassett: Radiography, Microstructure & Mechanical Properties of Cast Magnesium-Thorium-Zirconium Alloy HK 31A	April 79
Berry, J. P. Gouwens, & T. Watmough: Press Forged Castings	Oct. 47
Berry, J. V. Kondic & G. Martin: Solidification of Castings in Sand Molds	Aug. 39
Big Wheel for Tanker	June 31
Black, F. R.: Moisture-Free Green Sand Molding	Aug. 30
Blackmun, E. V. & J. H. Moorman: Aluminum Die-Casting Alloy	Sept. 70
Bloomquist, J. A.: Workmen's Compensation	Oct. 33
Bock, W. K.: Malleable Iron, Magnetic Alloy	April 61
<b>BOOK REVIEWS</b>	
Bosworth, T. J., R. W. Heine, J. J. Parker, E. H. King & J. S. Schumacher: Movement in Green Sand Molding	Feb. 148
	May 18
	Sept. 152
	Nov. 12
<b>BRASS &amp; BRONZE</b>	
Big Wheel for Tanker	June 31
Carbon Electrode Stops Zinc Fuming	May 5
Electrical Conductivity of Sand-Cast Copper-Base Alloys: D. G. Schmidt & F. L. Riddell	April 69
Marine Propeller Alloy Development	Jan. 55
A. J. Smith: Pressure Tightness of 85-5-5-5: R. A. Flinn & C. R. Mielke	July 35
Quality Casting: R. Cochran	Aug. 112
Quality Control in Brass Foundry: H. M. St. John	Aug. 67
Braun, E. E. & J. H. Smith: Casting Design Conference	Feb. 41
Brendler, F. F.: Iron That Bends	Oct. 126
Bridges, J. B. & G. L. Meeter: Blowing Steel with Dry Air	Aug. 25
Briggs, C. W. & G. K. Dreher: Steel Castings	March 30
Brillion Iron Works Modernization: J. H. Schaum	Jan. 39
Britton, D. E.: How to Make Money	Jan. 43
Brown & Sharpe Mfg. Co. Modernization: L. W. Greenslade	Jan. 32
Buhr, R. K. & W. A. Morgan: Cast and Wrought Alloy Steels	Oct. 61
Burwinkel, L. G., Jr.: Occurrence, Production & Uses of Quality Silica	Oct. 127

### C

Caine, J. B.: Stress Concentration & Castability	Feb. 101
Cameron Iron Works Dries Air: J. B. Bridges & G. L. Meeter	Aug. 25

Month	Page	Month	Page	Month	Page		
Copehart, W. C.: Resins & Techniques for Shell Molds & Shell Cores	June 49	CORES & CORE BOXES	Air-Set Process: D. R. Chester	Nov. 153	DIETRICH'S CORNER: H. F. Dietrich	Foundry Characters	Sept. 150
Carbon Electrode Stops Zinc Fuming	May 5	Core Boxes for Shell Cores: J. E. Stock	July 71	Salesmanship	March 20		
Carbon Flotation in Ductile Iron: A. H. Rauch, J. D. Peck & G. F. Thomas	May 61	R. Pohiman	Dec. 42	Sharing Knowledge	May 140		
Carbon Injection, Continuous: J. E. Williamson & R. C. Shmay	Oct. 55	New Foundry Core Processes: A. Dorfmüller, Jr.	Sept. 118	Dimensioning of Sand Casting Risers	Feb. 73		
Carrier Corp. Uses Castings to Build Air Conditioners: R. R. Stanton & W. F. Irvin	June 32	Organic Cold Setting Binders: E. S. Valentine	April 154	Direct Reduction of Iron Ore by Furnaces: H. W. Lowrie, Jr. & A. J. Stone	Jan. 47		
Carson, C. C. & R. J. Alperin: Hydrogen Determination for Steel Foundry Control	Feb. 50	Patented Core Draw Unit	Feb. 18	Diversification of the Customer: W. C. Trukenmiller	May 23		
Cast Aluminum Engine	March 5	Quality Castings: R. L. Hanson	Oct. 154	Diversification of Processes: S. Hodler	May 20		
Cast Bronze Bearing Institute, Open Meeting	Jan. 140	Rigging for High Production: W. H. Miller	Aug. 26	Doane, D. V., A. Solomon & T. E. Norman: Martensitic White Irons for Abrasion-Resistant Castings	April 104		
Cast Low Alloy Steels, Ductility & Toughness: J. Zotes	Nov. 698	Shell, Why Use?: E. W. John	Oct. 99	Don't Alloy Iron With Water: F. L. Riedelt	Aug. 29		
Cast Surfaces Evaluation for Roughness Standards: F. Swing	May 98	Stickiness in Core Sand Mixtures: AFS Sand Div. Committee 8-K	Feb. 134	Dorfmueller, A., Jr.: New Foundry Core Processes	Sept. 118		
Cast and Wrought Alloy Steels: R. K. Bahr & W. A. Morgan	Oct. 61	Costs	Aluminum Die Casting: G. H. Found & J. Lapin	May 88	Dorfmueller, A., Jr., & J. M. Sweeny: Bentonite, Birth of	Feb. 33	
Castability & Maximum Field Service from Cast Products: J. W. Beckham	July 43	How to Make Money in Foundry: D. E. Britton	Jan. 43	Dreher, G. K. & C. W. Briggs: Steel Castings	March 30		
<b>CASTING</b>		Industrial Engineering for Small Foundry: F. E. Noggle	July 51	Dry Sand Segregation: T. W. Seaton	Aug. 113		
Design Conference: J. H. Smith & E. E. Braun	Feb. 41	Linear Programming for Selecting Furnace Charge Materials: G. J. Gartner	May 112	Ductile Iron Society, Officers	June 130		
Design, Modern Art: A. R. Moore	Nov. 46	Profit Management: R. B. Hill	May 152	Ductile Iron Society Organized	April 138		
Four Requirements for Quality: R. Cochran	Aug. 112	Tax Consultant on Depreciation: I. Elbaum	Aug. 34	<b>DUCTILE (MODULAR) IRON</b>			
Gray Iron, Soundness of: I. C. H. Hughes, K. E. L. Nicholas, A. G. Fuller & T. J. Szajda	March 73	Countdown on Construction Hints: E. W. John	Dec. 40	Acid Cupola Melting: H. E. Henderson	Nov. 661		
Light Metal Alloys, Hot Cracking Test: E. J. Gamber	April 99	Cowles, R. J.: Optimum CO <sub>2</sub> Molding	Sept. 91	As-Cast & Annealed, Tensile Properties: A. H. Rauch, J. B. Peck & E. M. McCullough	March 111		
Magnesium Alloy EK31XA: K. E. Nelson	Oct. 71	Cowles, R. J.: Tentative Hot Shell Deformation Test	Sept. 51	Basic Cupola Melting: J. T. Williams	Nov. 669		
Marine Propeller Alloy Development: A. J. Smith	Jan. 55	Croom, P. B.: Pattern Engineering	Nov. 38	Carbon Flotation: A. H. Rauch, J. B. Peck & G. F. Thomas	May 61		
Starch Content Effect on Rammed Graphitic Mold Material for Titanium: H. W. Antes & R. E. Edelman	March 97	Crouse-Hinds Co., Air-Conditioning System	March 166	Casting Vs. Carbon Steel Forgings & Weldments: J. L. Saliba	Sept. 61		
<b>CASTINGS</b>		Crouse-Hinds Electronic Mold Counter	April 8	Desulphurizing Iron with Magnesium	Nov. 157		
Air Conditioners: R. R. Stanton & W. F. Irvin	June 32	Crouse-Hinds Co. Switches Ladies on Monorail	Sept. 30	Ferrous Cast Metals: A. Wittmoser	Dec. 47		
Design & Welding of Alloy Cast Steel: L. W. Songer	May 79	Crucible Steel Castings Co. Uses Polymer Binder: J. H. Schaum	Nov. 35	Gray Iron Founders' Society Tells Why Use Gray & Ductile Iron Castings: R. C. Meloy	March 24		
Die Castings: D. Laine	March 45	Crust Separation Test for Sand Expansion Defects: P. W. Good	July 86	Heat Treatment of: W. D. McMillan	April 27		
Ductile Iron, Vs. Carbon Steel Forgings & Weldments: J. L. Saliba	Sept. 61	Culling, J. H.: Foundry Cannot Survive Unless You Develop Technical Personnel	Dec. 36	Hot Extruded Iron	March 5		
Gray & Ductile Iron: R. C. Meloy	March 24	CUPOLA	Indirect Arc Electric Furnace Production: L. Miller	Nov. 653			
High Alloy: E. A. Schofer	March 34	Acid Melting for Ductile Iron: H. E. Henderson	Oct. 126				
High Flying, Quality: R. L. Hanson	Aug. 26	Basic Melting of Ductile Iron: J. T. Williams	Dec. 35				
Investment: R. R. Miller	March 42	Don't Alloy Your Iron With Water: F. L. Riedelt	June 61				
Magnesium: J. Singleton	March 39	Water-Cooled: H. Schwengel	Oct. 38				
Malleable Iron: H. J. Heine	March 27	Cyclic Permanent Mold Operation: C. L. Goodwin & H. Y. Hunsicker	Dec. 13				
Non-Ferrous: H. F. Scobie	March 36	<b>D</b>	Rose by Any Other Name: H. J. Weber	Jan. 134			
Porous, of Foamed Aluminum: J. R. Krieger	Feb. 37	Daly, Maurice: Radioactive Cobalt-60	Nov. 161				
Press Forged: P. Gouwens, T. Wilmouth & E. Berry	Oct. 47	Deoxidation Defects in Steel Castings: R. A. Flinn & L. H. Van Vlack	May 93				
Steel: C. W. Briggs & G. K. Dreher	March 30	Depreciation: I. Elbaum	Aug. 34				
Steel, or Aircraft: Y. J. Elizondo	June 79	<b>DESIGN</b>	Elizondo, Y. J.: Steel Castings for Aircraft	Sept. 122			
Tensile Properties: G. W. Form, P. J. Ahearn & J. F. Wallace	Feb. 45	Aid for Engineer: J. J. Henry	March 53				
World's Smallest	Sept. 142	Aircraft Designers Look at Light Metal Castings: A. R. Mead	March 61				
Central Foundry Div. GMC, Casting Design Conference: J. H. Smith & E. E. Braun	Feb. 41	Castability & Field Service from Cast Products: J. W. Beckham	July 43				
Central Foundry Div. GMC Uses Green Sand Molding: J. H. Schaum	Aug. 37	Casting Conference, Central Foundry Div.: J. H. Smith & E. E. Braun	Feb. 41				
CentraSteel: W. B. Larson, C. F. Joseph, F. J. Webber & R. F. Thomson	March 47	Modern Art: A. R. Moore	Nov. 46				
Centrifugal Casting at Tyler Pipe: J. H. Schaum	Jac. 36	Ductile Iron Castings: Vs. Carbon Steel Forgings & Weldments: J. L. Saliba	Sept. 61				
Chemical Analysis: E. H. Huss	April 54	Engineering Related to Magnesium Castings: G. H. Found	March 67				
Chester, D. R.: Air-Set Process	Nov. 153	Productivity of Magnesium Alloy Casting: W. Krzymowski & C. I. Miller	July 103				
Chicago Foundrymen's Association, Annual Meeting	Jan. 141	for Steel Castings: A. B. Steck	Oct. 103				
<b>CLEANING &amp; FINISHING</b>		Steel Castings for Aircraft: Y. J. Elizondo	June 79				
Barrel Finishing Method	Jan. 42	Stress Concentration & Castability: B. A. Caine	Feb. 101				
Exothermic-Coated Steel Arc-Welding Rod	March 5	and Welding of Alloy Cast Steel: L. W. Songer	May 79				
Reducing Costs: G. O. Pfaff	Nov. 152	DeScherer Co., Controls Ductile Iron Quality: S. F. Levy	Oct. 41				
<b>CO<sub>2</sub> PROCESS</b>		Sand Binder	June 34				
Break Size Barrier: J. W. Hamblen	April 132	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 42				
Dee Foundry Pours Al Bronze mold	Oct. 5	DeScherer Co., Controls Ductile Iron Quality: S. F. Levy	Oct. 88				
Dextrose Scores: D. R. Pohiman	Dec. 42	Sand Binder	Sept. 70				
In CO <sub>2</sub> Necessary	Dec. 35	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
New Foundry Core Processes: A. Dorfmüller, Jr.	Sept. 118	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Optimum Molding: R. J. Cowles	Sept. 91	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Reclaim Sodium Silicate Bonded Sand: G. C. Wermke	June 95	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Cobalt 60, Radioactive: M. Daly	June 27	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Cobalt-60, for Radiographing Castings	Nov. 33	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Cobalt 60, Use in Gating: A. J. Karam	June 73	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Cochran, Ray: Quality Casting, Four Requirements	Aug. 112	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Conrad, H. F., M. C. Flemings & H. F. Taylor: Aluminum Alloy Fluidity Test	Aug. 86	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Conveyor Equipment Manufacturers Association, Annual Meeting	Jan. 142	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Copper in Cast Irons: A. de Sy	June 41	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Cooper-Base Castings, Sand-Cast, Electrical Conductivity: D. G. Schmidt & F. L. Riddell	April 69	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
<b>CAST IRON</b>		DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Sept. 55	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
<b>DIETRICH'S CORNER: H. F. Dietrich</b>		DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Foundry Characters	Sept. 150	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Salesmanship	March 20	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Sharing Knowledge	May 140	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
H. D. Merchant	Sept. 73	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Direct Reduction of Iron Ore by Furnaces: H. W. Lowrie, Jr. & A. J. Stone	Jan. 47	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Diversification of the Customer: W. C. Trukenmiller	May 23	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Diversification of Processes: S. Hodler	May 20	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Doane, D. V., A. Solomon & T. E. Norman: Martensitic White Irons for Abrasion-Resistant Castings	April 104	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Don't Alloy Iron With Water: F. L. Riedelt	Aug. 29	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Dorfmueller, A., Jr.: New Foundry Core Processes	Sept. 118	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Dorfmueller, A., Jr., & J. M. Sweeny: Bentonite, Birth of	Feb. 33	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Dreher, G. K. & C. W. Briggs: Steel Castings	March 30	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Dry Sand Segregation: T. W. Seaton	Aug. 113	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Ductile Iron Society, Officers	June 130	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Ductile Iron Society Organized	April 138	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
<b>DUCTILE (MODULAR) IRON</b>		DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Acid Cupola Melting: H. E. Henderson	Nov. 661	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
As-Cast & Annealed, Tensile Properties: A. H. Rauch, J. B. Peck & E. M. McCullough	March 111	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Basic Cupola Melting: J. T. Williams	Nov. 669	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Carbon Flotation: A. H. Rauch, J. B. Peck & G. F. Thomas	May 61	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Casting Vs. Carbon Steel Forgings & Weldments: J. L. Saliba	Sept. 61	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Desulphurizing Iron with Magnesium	Nov. 157	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Ferrous Cast Metals: A. Wittmoser	Dec. 47	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Gray Iron Founders' Society Tells Why Use Gray & Ductile Iron Castings: R. C. Meloy	March 24	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Heat Treatment of: W. D. McMillan	April 27	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Hot Extruded Iron	March 5	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Indirect Arc Electric Furnace Production: L. Miller	Nov. 653	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Iron that Bends: F. F. Brendler	Oct. 126	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
New Low Cost Desulphurizer	Dec. 35	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Production in Basic Direct-Arc Furnace: C. R. Isleib	June 61	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Quality Castings: C. F. Levy	Oct. 38	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Riserless Castings: C. W. Gilchrist	Dec. 13	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Rose by Any Other Name: H. J. Weber	Jan. 134	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Sulphur Removal: S. L. Gertzman	Sept. 119	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Tin Effect on Flake & Nodular Graphite: E. C. Ellwood	July 73	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Ductility & Strength of High-Carbon Gray Irons: E. M. Stein & H. O. McIntire	March 103	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Dunn, W. H.: Steel Castings, New Look	Oct. 30	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
<b>EDUCATION</b>		DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Arsenal Technical High School Facilities Modernized	Sept. 124	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Rochester, N.Y. High School Fights to Save Courses	March 122	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Training Survey Proposed by AFS Advisory Group	June 108	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Eimco Corp. Develops New Steel Alloy: J. H. Schaum	Sept. 43	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Elbaum, I.: Depreciation	Aug. 34	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Electrical Conductivity of Sand-Cast Copper-Base Alloys: D. G. Schmidt & F. L. Riddell	April 69	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Elevated Temperature Properties of Cast & Wrought Steel: R. K. Bahr & W. A. Morgan	Oct. 61	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Elizondo, Y. J.: Steel Castings for Aircraft	June 79	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Elizondo, Y. J. & J. H. Rassenfoss: Foundrymen Vs. Aero-Engineers	Dec. 45	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Ellwood, E. C.: Tin Effect on Flake & Nodular Graphite Cast Irons	July 73	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Europe, What's Happening?: C. A. Sanders	July 105	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Exothermic-coated Steel Arc-welding Rod	May 5	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Expansion Scab Formation, Timing of: J. E. Haller	May 65	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
<b>F</b>		DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Factors Influencing Soundness of Gray Iron Castings: I. C. H. Hughes, K. E. L. Nicholas, A. G. Fuller & T. J. Szajda	March 73	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Fair, Ernest W.: Pride of Work	Jan. 147	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Fairfield Aluminum Casting Co. Barreling Finishing Method	Jan. 42	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				
Federal Foundry Supply Div., Archer-Daniels-Midland Co. Processes Bentonite: A. Dorfmüller, Jr. & J. M. Sweeny	Feb. 33	DeScherer Co., Solidification Mechanisms of Eutectic & Gray Iron	Aug. 45				

Month	Page	Month	Page	Month	Page
Ferguson, J. B.: Plastics in Pattern Shop	July 104	Gilchrist, C. W.: Riserless Castings	Dec. 13	Hexachloroethane Mold Coating	Nov. 33
Ferrous Cast Metals, International Classification of: A. Wittmoser	Dec. 47	Goad, P. W.: Crust Separation Test for Sand Expansion Defects	July 86	High Flying Quality Castings: R. L. Hanson	Aug. 26
Finkl, A. & Sons Co., Vacuum Degassing Process	Nov. 45	Golden Foundry, Pneumatic Messenger: K. L. Potter	June 120	High-Speed Melting: J. G. Winget	Sept. 44
Five Advantages of Moisture-Free Green Sand Molding: F. R. Black	Aug. 30	Goodwin, C. L. & H. Y. Hunsicker: Cyclic Permanent Mold Operation	July 81	High Strength Steel Castings: K. D. Holmes	July 65
Flemings, M. C., H. F. Conrad & H. F. Taylor: Aluminum Alloys Fluidity Test	Aug. 66	Gouwens, P., T. Watmough & J. Berry: Press Forged Castings	Oct. 47	Hill, R. B.: Profit Management through Cost Control	May 75
Flemings, M. C., H. F. Green & H. F. Taylor: Structural Variables of High Strength Cast Steels	Oct. 84	Graddy, J. C.: Bending Techniques for Cast Materials & Structures	March 90	Hinrichs, H. G.: German Molding Sand Technology	Sept. 21
Flemings, M. C., J. E. Niesse & H. F. Taylor: Understanding Fluidity of Metals	Nov. 685	Graham, A. L., H. W. Dietert & V. Rowell: Tempering Molding Sand by Vibration	Feb. 55	Hodler, Sam: Diversification of Processes	May 20
Flinn, R. A. & C. R. Miscke: Pressure Tightness of 85-5-5 Bronze	July 35	Grant, H. C.: Shell Molding in Automotive Industry	June 86	Hofmann, F.: Surface & Grain Shape of Foundry Sands	Feb. 105
Flinn, R. A. & L. H. Van Vlack: Deoxidation Defects in Steel Castings	May 93	Gray Cast Iron Machinability: W. W. Moore & J. O. Lord	Nov. 641	Holmes, K. D., J. Zotos & P. J. Ahearn: High Strength Steel Castings	July 65
Fluidity of Metals, Application of Theory: J. E. Niesse, M. C. Flemings & H. F. Taylor	Nov. 685	GRAY IRON	April 55	Hot Cracking Test for Light Metal Casting Alloys: E. J. Gamber	April 99
Fluidity Test, Aluminum Alloys: M. C. Flemings, H. F. Conrad & H. F. Taylor	Aug. 86	Carbon Injection: J. E. Wilson & R. C. Shnay	Oct. 55	Hot Extrude Ductile Iron	March 5
Fluorescent Penetrant Method for Casting Inspection: A. Lindgren	Oct. 105	Cast Iron Produced from Ore: H. W. Lowrie, Jr. & A. J. Stone	Jan. 47	Hot Shell Deformation Test, Tentative AFS Committee 8-N: R. J. Cowles	Sept. 51
Forged Aluminum: R. J. Kreigh	Feb. 37	Castings, Soundness of: I. C. H. Hughes, K. E. L. Nicholas, A. G. Fuller & T. J. Szajda	March 73	Hot Tears, How to Prevent in Steel Castings	May 158
Fork-Lift Truck, How to Select: W. A. Mednick	Sept. 40	Castings, Why and How to Use: R. C. Meloy	March 24	How to Feed A Casting: C. M. Adams, Jr.	July 104
Form, G. W., P. J. Ahearn & J. F. Wallace: Castings Tensile Properties	Feb. 45	Cooling Rate & Physical Properties of Cast Metals: Institute of British Foundrymen	Feb. 86	How to Make Money in Foundry: D. E. Britton	Jan. 43
Found, G. H.: Design Requirements Related to Magnesium Castings	March 67	Copper in Cast Iron: A. De Sy	June 41	Howell, N. C. & E. A. Lange: Mn-V-Mo Age-Hardenning Austenitic Steel	Sept. 55
Found, G. H. & J. Lapin: Aluminum Die Casting Metal Cost	May 88	Ductility & Strength: E. M. Stein & H. O. McIntire	March 103	HOW'S BUSINESS	
Foundries Can Produce Cast Iron from Ore: H. W. Lowrie, Jr. & A. J. Stone	Jan. 47	Expansion Scab Formation: J. E. Haller	May 65	Chart of Metalcastings Shipments	Jan. 30
Foundry Designing for Steel Castings: A. B. Steck	Oct. 103	Ferrous Cast Metals: A. Wittmoser	Dec. 47	" " "	Feb. 28
Foundry Educational Foundation, AFS Trustee Appointed	Feb. 109	Machinability: W. W. Moore & J. O. Lord	April 55	" " "	March 21
Foundry Educational Foundation, Wheel-abrasive Fellowship Winners	Feb. 138	Modernization at Tyler Pipe: J. H. Schaum	Jan. 36	" " "	April 36
Foundry Equipment Manufacturers Association, Annual Meeting	Jan. 140	Molybdenum Effect on Elevated Temperature Properties: G. K. Turnbull & J. F. Wallace	Jan. 81	Gray Iron Industry Map	June 25
Foundry Equipment Manufacturers Association, Annual Meeting	Dec. 86	New Low Cost Desulphurizer	Dec. 35	Malleable Iron Industry Map	Sept. 133
Foundry Plant Engineer: J. Thomson	June 57	Permanent Molding: H. U. McClelland	April 88	Steel Casting Industry Map	Sept. 32
Foundrymen-Sailors, J. Hurlburt	Nov. 42	Solidification of Eutectic & Gray Iron: A. De Sy	Aug. 76	Hughes, I. C. H., K. E. L. Nicholas, A. G. Fuller & T. J. Szajda: Soundness of Gray Iron Castings	May 38
Foundrymen Vs. Aero-Engineers: Y. J. Elizondo & J. H. Rassenfoss	Dec. 45	Gray Iron Founders' Society, Annual Meeting	Dec. 86	Hunsicker, H. Y. & C. L. Goodwin: Cyclic Permanent Mold Operation	July 42
Four Requirements for Quality Casting: R. Cochran	Aug. 112	Gray Iron Founders' Society Tells Why Use Gray & Ductile Iron Castings: R. C. Meloy	March 24	Hurlburt, J.: Sailor-Foundrymen	Nov. 54
Fulmer, A. G., I. C. H. Hughes, K. E. L. Nicholas & T. J. Szajda: Factors Influencing Soundness of Gray Iron Castings	March 73	Green, R., M. C. Flemings & H. F. Taylor: Structural Variables of High Strength Cast Steels	Oct. 84	Huss, E. H.: Rapid Chemical Analysis	April 54
FURNACES		Green Sand Molding, Moisture-Free: F. R. Black	Aug. 30	Hydrogen Determination for Steel Foundry Control: C. C. Carson & B. J. Alperin	Feb. 50
Electric Arc, for Ductile Iron Production: L. Miller	Nov. 653	Green Sand Molding Strikes Back: J. H. Schaum	Aug. 37	Hypereutectic Aluminum-Silicon Alloy: R. Kissling & O. Tichy	June 67
Electric Arc, How to Ventilate: D. M. Hysinger	July 30	Green Sand Quality Control: A. Johnston	Feb. 34	Hyssinger, D. M.: How to Ventilate Electric Arc Furnaces	July 30
High-Speed Melting at Reda Pump Co.: J. G. Winget	Sept. 44	Green Tensile & Shear Strengths of Molding Sands: R. W. Heine, E. H. King & J. S. Schumacher	April 91	I	
Thermocouples to Prevent Bottom Damage	Nov. 33	Greenslade, L. W.: Modernization Creates Flexible Productivity	Jan. 32	INDIRECT ARC ELECTRIC FURNACE PRODUCTION	
G		Griffin Wheel Co., Magnetic-Particle Inspection: A. J. Panozzo	Feb. 38	of Ductile Iron: L. Miller	Nov. 653
Gamber, E. J.: Hot Cracking Test for Light Metal Casting Alloys	April 99	Grim, R. E. & D. R. Jones: Pinhole Occurrence in Malleable Castings	July 47	Industrial Engineer as Executive: M. E. Mundel	Aug. 83
Garrison, R. G. & J. F. Wallace: Grain Refinement of Solidifying Metals by Vibration	June 86	Haller, J. E.: Timing of Expansion Scab Formation	May 65	Industrial Engineering for Small Foundry: F. E. Noggle	July 51
Gartner, G. J.: Linear Programming of Materials for Furnace Charges	May 112	Hambler, J. W.: CO <sub>2</sub> Process Breaks Size Barrier	April 132	Inspection, Fluorescent Penetrant Method: A. Lindgren	Oct. 105
Gas in Aluminum, Rapid Measurement of: H. V. Sulinski & S. Lipson	Jan. 102	Hanson, R. L.: Quality Castings	Aug. 26	Institute of British Foundrymen: Mold Material Effect on Cooling Rate & Physical Properties of Cast Metals	Feb. 86
GATING & RISING		Healing Hot Tears with Vibrations	Dec. 30	International Classification of Ferrous Cast Metals: A. Wittmoser	Dec. 47
Dimensioning of Sand Casting Risers: H. D. Merchant	Feb. 73	HEAT TREATING		INTERNATIONAL FOUNDRY CONGRESS	
Feeding Castings: C. M. Adams, Jr.	July 104	Heat Treatment of Ductile Iron: W. D. McMillan	April 77	AFS Exchange Paper	Nov. 119
Gray Iron Castings, Soundness of: I. C. H. Hughes, K. E. L. Nicholas, A. G. Fuller & T. J. Szajda	March 73	High Strength Steel Castings: K. D. Holmes, J. Zotos & P. J. Ahearn	July 65	Brussels Papers Available	May 166
Molten Metal Filtering Process	May 5	Quenching Oils and Techniques for: N. F. Squire	Jan. 76	Delegates	June 108
Pressure Tightness of 85-5-5 Bronze: R. A. Flinn & C. R. Mielke	Sept. 35	Heine, H. J.: Malleable Iron Castings	March 27	33 Papers Presented	Oct. 116
Producing Sound Al-7Mg Alloy Castings: W. H. Johnson & J. G. Kura	Sept. 73	Heine, R. W., T. J. Bowsworth, J. J. Parker, E. H. King & J. S. Schumacher: Movement & Compaction in Green Sand Molding	Jan. 93	Report: S. C. Massari in Spain	Dec. 68
Riserless Castings: C. W. Gilchrist	Dec. 13	Heine, R. W., E. H. King & J. S. Schumacher: Green Tensile & Shear Strengths of Molding Sands	April 91	Spain to Be Host	Feb. 112
Solidification Times of Simple Shaped Castings in Sand Molds: J. Berry, V. Kondic & G. Martin	Aug. 39	Heine, R. W. & C. R. Loper, Jr.: Motting in White Iron Castings	June 100	Investment Casters Speed Cooling	March 126
Use of Cobalt 60: A. J. Karam	June 73	Henderson, H. E.: Acid Cupola Melting for Ductile Iron	Nov. 661	INTERNATIONAL FOUNDRY CONGRESS	May 5
Geitman, R. J.: Efficiency in Materials Handling	Sept. 118	Henry, J. J.: Aid for Design Engineer	March 53	INVESTMENT CASTING	
General Motors Corp. Chevrolet-Saginaw Grey Iron Foundry Prepares Molding Sand: W. C. Schartow	Aug. 112			Angels & Missiles: Joan C. Joseff	July 26
General Motors Describes CentraSteel: W. B. Larson, C. F. Joseph, F. J. Webber & R. F. Thomson	March 47			Why and How to Use: R. R. Miller	March 42
General Motors Institute Foundry Club Banquet	Jan. 6	HERE'S NOW		Investment Casting Institute Elects Officers	Feb. 130
German Molding Sand Technology: H. G. Hinrichs	Sept. 21	Herlihy, F. B., H. R. Larson & H. W. Lloyd: X-ray Quality & Tensile Properties in Cast High Strength Steel	July 128	Investment Casting Institute Tells Why Use Investment Castings: R. R. Miller	March 42
Gertman, S. L.: Sulphur Removal	Sept. 19			Irish, J. R.: Work Smarter, Not Harder	Sept. 36

Month	Page	Month	Page	Month	Page
Johnston, A.: Green Sand Quality Control	Feb. 34	Diversification of Processes: S. Hodler	May 20	Mielke, C. R. & R. A. Flinn: Pressure	July 35
Jones, D. R. & R. E. Grim: Pinhole	Occurrence in Malleable Castings	July 47	Foundry Cannot Survive Unless You	Tightness of 85-5-5 Bronze	
Joseph, Joan Castle: Angels & Missiles	July 28	Develop Administrative Management:	July 36	Miller, C. I. & W. Krzymowski: Design	
Joseph, C. F., W. B. Larson, F. J.	March 47	B. L. Simpson	Dec. 37	Productivity of a Magnesium Alloy	
Webbore & R. F. Thomson: CentraSteel	March 47	Foundry Cannot Survive Unless You	July 37	Casting	
Karam, A. J.: Gating Through Use of	Cobalt 60	Develop Operation Supervisors: L.	Dec. 37	Miller, L.: Indirect Arc Electric Furnace	
King, E. H., T. J. Bowsworth, R. W.	June 73	J. Woehlke	Dec. 37	Production of Ductile Iron	
Heine, J. J., Parker & J. S. Schumacher: Movement & Compaction in	Jan. 93	Foundry Cannot Survive Unless You	Dec. 36	Miller, R. R.: Investment Castings	
King, E. H., R. W. Heine & J. S. Schumacher: Green Tensile & Shear	Jan. 93	Develop Technical Personnel: J. H.	March 42	Miller, W. H.: Core Box Rigging for	
Strengths of Molding Sands	April 91	Culling	High Production		
Kissling, R. & O. Tichy: Hypereutectic	June 67	How to Make Money: D. E. Britton	Oct. 99	Mn-V-Mo Age-Hardenning Austenitic Steel:	
Aluminum-Silicon Alloy	June 67	Industrial Engineer as Executive: M.	Jan. 43	N. C. Howells & E. A. Lange	
Kondic, V., J. Berry & G. Martin:	June 67	E. Mundel	Sept. 55	Modernization Creates Flexible Productivity:	
Solidification of Castings in Sand Molds	Aug. 39	Industrial Engineering for Small Foundry: F. E. Noggle	Jan. 32	L. W. Greenstade	
Kreigh, J. R.: Foamed Aluminum	Feb. 37	Profit Through Cost Control: R. B.	Jan. 36	Modernization Permits Exclusive Product:	
Krzymowski, W. & C. I. Miller: Design	Feb. 37	Hill	J. H. Schaum		
Productibility of a Magnesium Alloy	July 25	Steel Casting Industry Map	Jan. 39	Modernization Yields High Productivity:	
Casting	July 25	Tax Consultant on Depreciation: I.	June 132	J. H. Schaum	
Kura, J. G. & W. H. Johnson: Producing	Sept. 73	Elbaum	Modernization for Profit: A. B. Steck		
Sound Al-7Mg Alloy Castings	Sept. 73	Time Study & Methods Training: J.	Sept. 59	Mold Material Effect on Cooling Rate &	
L		Taylor	Physical Properties of Cast Metals:		
Laine, D.: Die Castings	March 45	Work Smarter, Not Harder: J. R. Irish	Institute of British Foundrymen		
Lange, E. A. & N. C. Howells: Mn-V-Mo	Sept. 55	Workmen's Compensation: J. A. Bloomquist	Feb. 86		
Age-Hardenning Austenitic Steel	Sept. 55	Marine Propeller Alloy, Problems in Development: A. J. Smith			
Lapin, J. & S. H. Found: Aluminum Die	May 88	Marquette University & T & RI Present Tips on Cutting Costs			
Casting Metal Cost	May 88	Martenitic White Irons for Abrasion-Resistant Castings: T. E. Norman, A.			
Larson, H. R., H. W. Lloyd & F. B.	May 88	Solomon & D. V. Doane			
Herlihy: X-ray Quality & Tensile Properties in Cast High Strength Steel	Nov. 676	Martin, G. J. Berry & V. Kondic:			
Larson, W. B., C. F. Joseph, F. J.	Nov. 676	Solidification of Castings in Sand Molds			
Webbore & R. F. Thomson: CentraSteel	March 47	Mass Effect on Castings Tensile Properties: G. W. Form, P. J. Ahearn & J. F. Wallace			
LaVelle, D. L.: Is Quality Under Control?	Aug. 14	Massari, S. C.: International Foundry Congress Report			
Levy, S. F.: Ductile Iron Quality Castings	Oct. 38	M			
Lindgren, A.: Fluorescent Penetrant	Oct. 105	MATERIAL HANDLING			
Method for Casting Inspection	Oct. 105	Crouse-Hinds Co. Switches Ladies on Monorail			
Linear Programming for Selecting Furnace Charge Materials: G. I. Gartner	May 112	Efficiency: R. J. Geitman			
Lipson, S. & H. V. Sulinski: Rapid Measurement of Gas in Aluminum	Jan. 102	Fork-Lift Truck, How to Select: W. A. Medick			
Lloyd, H. W., H. R. Larson & F. B.	Jan. 102	Oscillating Conveyors: G. Mott			
Herlihy: X-ray Quality & Tensile Properties in Cast High Strength Steel	Nov. 676	Oscillating Conveyors Solve Puzzles			
Loper, C. R., Jr. & R. W. Heine: Molding in Heavy Section White Iron Castings	June 100	Pneumatic Messenger: K. L. Potter			
Lord, J. D. & W. W. Moore: Gray Cast Iron Machinability	April 55	Studebaker-Packard Corp. Installs Air Conveyor System			
Lowrie, H. W., Jr. & A. J. Stone: Foundries Produce Cast Iron from Ore	Jan. 47	McClelland, H. U.: Gray Iron Permanent Molding			
M		McCollough, E. M., A. H. Rauch & J. B. Peck: Ductile Iron As-Cast & Annealed Tensile Properties			
MAGNESIUM		McIlvaine, R. L.: Sand Reclamation of			
Casting Alloy EK31XA: K. E. Nelson	Oct. 71	McIntire, H. O. & E. M. Stein: Ductility & Strength of High-Carbon Gray Irons			
Castings Why and How to Use: J. Singleton	March 39	McMillan, W. D.: Heat Treatment of Ductile Iron			
Design Engineering: G. H. Found	March 67	Mead, A. R.: Aircraft Designers Look at Light Metal Castings			
Cast Productibility of Casting W.	March 67	MECHANIZATION			
Krzymowski & C. I. Miller	July 25	Modernization at Brillion Iron Works: J. H. Schaum			
Hot Crack Test for Light Metal Casting Alloys: E. J. Gamber	April 29	Modernization at Brown & Sharpe: L. W. Greenstade			
on Steel Felt	Oct. 5	Movement & Compaction in Green Sand: T. J. Bowsworth, R. W. Heine, J. J. Parker, E. H. King & J. S. Schumacher			
Thorium-Zirconium Alloy HK31A: T. R. Bergstrom & R. G. Bassett	April 79	Porosity, Inclusions & Pinholes in Malleable Castings: C. A. Sanders			
Magnesium Association Convention, 14th	Feb. 130	Solidification of Simple Shaped Castings: J. Berry, V. Kondic & G. Martin			
Magnesium Association Tells Why Use Magnesium Castings: J. Singleton	March 39	Starch Content Effect on Rammed Graphite Material for Casting Titanium: H. W. Antes & R. E. Edelman			
Magnetic-Particle Inspection at Griffin Wheel: A. J. Panzica	Feb. 38	Molten Metal Filtering Process			
Maintenance, Productive, 1960: C. E. Sutton, Jr.	Oct. 42	Molybdenum Effect on Gray Iron Elevated Temperature Properties: G. K. Turnbull & J. F. Wallace			
Machinability, Gray Cast Iron: W. W. Moore & J. O. Lord	April 55	Moore, A. R.: Casting Design, Modern Art			
Malleable Founders Society, Technical & Operating Conference	April 138	Moore, W. W. & J. O. Lord: Gray Cast Iron Machinability			
Malleable Founders Society Tells Why Use Malleable Iron Castings: H. J. Heine	March 27	Moorman, J. H. & E. V. Blackmun: Aluminum Die-Casting Alloy			
MALLEABLE IRON		Morgan, W. A. & R. K. Buhr: Cast and Wrought Alloy Steels			
Castings Why and How to Use: H. J. Heine	March 27	Mott, G. L.: Oscillating Conveyors			
CentraSteel: W. B. Larson, C. F. Joseph, F. J. Webbore & R. F. Thomson	March 47	Molding in Heavy Section White Iron Castings: C. R. Loper, Jr. & R. W. Heine			
Ferrous Cast Metals: A. Wittmeyer	Dec. 47	Mundel, M. E.: Industrial Engineer as Executive			
Magnetic Alloy: W. K. Bock	April 61	N			
Molding in Heavy Section White Iron Castings: C. R. Loper, Jr. & R. W. Heine	June 100	National Castings Council, Officers			
Pinhole Occurrences: D. R. Jones & R. E. Grim	July 47	National Foundry Association, Officers			
Porosity, Inclusions & Pinholes: C. A. Sanders	May 103	National Foundry Association, Officers			
MANAGEMENT		National Industrial Sand Association and AFS Committee 8-F: How to Avoid Sand Segregation			
Casting Design Conference, Central Foundry Div.: J. H. Smith & E. E. Braun	Feb. 41	National Supply Co. Prevents Hot Tears			
Diversification of the Customer: W. C. Truckenmiller	May 23	Nelson, K. E.: Magnesium Casting Alloy EK31XA			
98 • modern castings		Nicholas, K. E. L., J. C. H. Hughes, A. G. Fuller & T. J. Szajda: Factors Influencing Soundness of Gray Iron Castings			
		Niese, J. E., M. C. Flemings & H. F. Taylor: Understanding Fluidity of Metals			
		Nodular Iron (See Ductile Iron)			
		Noggle, F. E.: Industrial Engineering for Small Foundry			
		NONDESTRUCTIVE TESTING			
		Castability & Field Service from Cast Products: J. W. Beckham			
		Cobalt-60 Radioactive: M. Daly			
		Gating, Use of Cobalt 60: A. J. Karam			
		Magnetic-Particle Inspection at Griffin			

Month	Page	Month	Page	Month	Page
Wheel: A. J. Panizzo	38	Parker, J. J., T. J. Bosworth, R. W. Heine, E. H. King & J. S. Schumacher: Movement & Compaction in Green Sand Molding	93	Reda Pump Co. Develops High-Speed Melting: J. G. Winget	44
Planning by Use of Radiation: F. S. Sutherland	71			Reducing Blast Cleaning Costs: G. O. Pfaff	152
Radiography Assures Quality	127	PATENT REVIEW:		Resins & Application Techniques for Shell Molds & Shell Cores: W. C. Capshart	
Radiography, Microstructure & Mechanical Properties of Cast Magnesium-Thorium-Zirconium Alloy HK31A: T. R. Bergstrom & R. G. Bassett	79	Core Draw Unit	154	Riddell, F. L. & D. G. Schmidt: Electrical Conductivity of Sand-Cast Copper-Base Alloys	69
Radioisotopes in Foundry Industry: M. Poberski & D. N. Sunderman	69	Olivine and Bentonite Mixture	158	Rietveld, F. L.: Don't Alloy Iron with Water	69
Ultrasonic Attenuation in Cast Aluminum: H. Smolen & H. Rosenthal	55	Patents of Coremakers	18	Riserless Castings: C. W. Gilchrist	29
X-ray Quality & Tensile Properties in Cast High Strength Steel: H. R. Larson, H. W. Lloyd & F. B. Herlihy	676	PATTERNS & CORE BOXES		Rochester, N. Y.: High School Fights to Save Courses	13
NON-FERROUS ALLOYS		Construction Hints: E. W. Jahn	40	Rosenthal, H. & H. Smolen: Ultrasonic Attenuation in Cast Aluminum	122
Castings, Why and How to Use: H. F. Scobie	36	New Patternmaking Technique	35	Rowell, V. H., W. D. Dietert & A. L. Graham: Tempering Molding Sand	55
Metal Melting: H. C. Ahl	154	Pattern Engineering: P. B. Croom	38	Russian Foundry Practice	16
Non-Ferrous Founders' Society Tells Why Use Non-Ferrous Castings: H. F. Scobie	36	Pattern Engineering Materials: J. E. Olson	98	Russian Foundry Practice	10
Norman, T. E., A. Solomon & D. V. Doane: Martensitic White Irons for Abrasion-Resistant Castings	104	Pattern Shop, Plastics: J. B. Ferguson	104		
OBITUARIES		Peck, J. B., A. H. Rauch & E. M. McCullough: Ductile Iron As-Cast & Annealed Tensile Properties	111		
Altman, Eldon M.	143	Peck, J. B., A. H. Rauch & G. F. Thomas: Carbon Flotation in Ductile Iron	61		
Arnold, Harry L.	26	Penny A Pound Knocks His Out of Steel	45		
Bailey, Dr. Marcel	118				
Baud, William C.	118				
Behrendt, Leo	35				
Bixby, A. S.	150				
Bonner, L. A.	138				
Britton, R. C.	138				
Bug, O. C.	35				
Calhoun, G. T.	150				
Carlington, Frank G.	121				
Collins, B. O.	138				
Cramer, Glenn E.	22				
Dalbey, George E.	118				
Dempsey, A. J.	118				
Diamondstone, I. A.	140				
Evans, David	140				
Fattmann, E. O.	118				
Fisher, A.	150				
Flagg, C. Kenneth	128				
Fowler, W. E., Jr.	138				
Galgiani, N. F.	138				
Galfmeyer, William H.	138				
Gardner, Harold B.	138				
Hayden, Richard E.	26				
Hindle, Norman F.	26				
Hochgesang, G. E.	30				
Johnson, W. J.	138				
Jones, E. O.	140				
Kaufmann, S. T.	150				
Klopfiesch, E. M.	140				
Klouman, Henning	150				
Kohler, Niles L.	140				
Koleman, L. E.	18				
MacFarlin, Henry F.	150				
Magee, J. E.	26				
Malpass, Theodore E.	140				
Marr, John A.	26				
McLane, Frederick W.	140				
Miner, Wesley A.	26				
Minich, V. E.	140				
Ofner, F.	30				
Paltenghi, Earl	140				
Penhaligan, Charles	121				
Phelps, R. D., Sr.	150				
Piggott, D. P.	140				
Ragland, C. T.	140				
Roberts, E. E.	140				
Shrum, G. Dixon	22				
Sorrensen, Max, Jr.	140				
Stone, Hubert C.	140				
Tebbetts, C. B.	30				
Temple, Walter J.	140				
Tinkler, Loyd A.	121				
Titgen, H. W.	121				
Tucker, Robert O.	138				
Wabiszewski, F.	18				
Williams, Howard J.	140				
Williams, J. H.	35				
Wood, Sheldon V.	150				
Zeis, W. A.	121				
Gettlinger, J. F.: Shellmolding	130				
Oklahoma Steel Castings Co. Uses CO <sub>2</sub> Process: J. W. Hamblen	132				
Olsen, J. E.: Pattern Engineering Materials	98				
Organic Cold Setting Binders: E. S. Valentine	154				
Oscillating Conveyors, Move Foundry Materials: G. Mott	35				
Oscillating Conveyors Solve Problems	37				
P					
Pacific Alloy Corp. Uses Shell Mold: W. H. Dunn	30	RADIATION USED FOR NONDESTRUCTIVE TESTING: F. H. G. Vingas	71	Sanders, C. A.: Porosity, Inclusions & Pinholes in Malleable Castings	103
Panizzo, A. J.: Magnetic-Particle Inspection	36	Radioactive Cobalt-60: M. Daly	27	Sanders, C. A.: What's Happening in Europe?	105
		Radiography Assures Quality	27	Schartow, W. C.: Molding Sand	112
		Radiography, Microstructure & Mechanical Properties of Cast Magnesium-Thorium-Zirconium Alloy HK31A: T. R. Bergstrom & R. G. Bassett	127	Schaum, J. H.: Green Sand Molding	37
		Radioisotopes in Foundry Industry: M. Poberski & D. N. Sunderman	79	Modernization at Brillen Iron Works	39
		Ramming, Superheat & Alloy Effects on Metal Penetration: AFS Committee 8-H, G. J. Vingas	69	Modernization Permits Exclusive Product	36
		Rassenfosse, J. H. & Y. J. Elizondo: Foundrymen vs. Aero-Engineers	69	New Steel Alloy at Elmco Corp.	43
		Rauch, A. H., J. B. Peck & E. M. McCullough: Ductile Iron As-Cast & Annealed Tensile Properties	61	Proof of Product Is in Castings	35
		Rauch, A. H., J. B. Peck & G. F. Thomas: Carbon Flotation in Ductile Iron	61	Schmidt, D. G. & F. L. Riddell: Electrical Conductivity of Sand-Cast Copper-Base Alloys	69
		Reclaim Sodium Silicate Bonded Sand: G. C. Warneke	95		
		Reclamation of Sand in Foundries: R. L. McIlvane	140		

Month	Page	Month	Page	Month	Page
Schoefer, E. A.: High Alloy Castings	March	34	Magnetic-Particle Inspection at Griffon Wheel: A. J. Panozzo	Feb.	38
Schumacher, J. S., T. J. Bosworth, R. W. Heine, J. J. Parker & E. H. King: Movement & Compaction in Green Sand Molding	Jan.	93	Map, Steel Casting Industry	July	22
Schumacher, J. S., N. W. Heine & E. H. King: Green Tensile & Shear Strengths of Molding Sands	April	91	New Alloy at Elenco Corp.: J. H. Schaum	Sept.	43
Schwendel, H.: Cupolas, Water-Cooled	Oct.	141	Polymer Sand Binder: J. L. Dewey & T. J. West	Nov.	34
Scobie, H. F.: Non-Ferrous Castings	March	36	Press Forged Castings: P. Gouwens, T. Watmough & J. Berry	Oct.	47
Seaton, T. W.: Dry Sand Segregation	Aug.	113	Proof of Product Is in Castings: J. H. Schaum	Nov.	35
<b>SHAPE OF THINGS: Herbert J. Weber</b>			Stainless, High Alloy Castings: E. A. Schoefer	March	34
Aluminum Therapy	Aug.	18	Sulphur Removal: S. L. Gertsman	Sept.	119
Fables and Follies	Nov.	132	Vacuum Degassing at A. Finkl & Sons Co.	Nov.	45
Rose by Any Other Name	Jan.	134	Steel Felt and Magnesium	Oct.	5
Salmagundi: Shell Cores, Why Use? E. W. Jahn	April	24			
Shell Cores, Why Use? E. W. Jahn	Feb.	134			
<b>SELL MOLDING, BLOWING &amp; CASTING in Automotive Industry: H. C. Grant</b>	Nov.	641			
Core Boxes for Shell Cores: J. E. Stock	July	71			
New Foundry Core Processes: A. Dorfmüller, Jr.	Sept.	118			
Patent Review for Coremakers	Feb.	18			
Primer: J. J. Silk	Sept.	48			
Resins for Shell Molds & Shell Cores: W. C. Caperhart	June	49			
Shell Cores, Why Use? E. W. Jahn	Feb.	134			
Shellmolding: J. F. Oettinger	July	130			
Steel Castings, New Look: W. H. Dunn	Oct.	30			
Tentative Hot Shell Deformation Test: AFS Committee 8-N, R. J. Cowles	Sept.	51			
Shnay, R. C. & J. E. Wilson: Carbon Injection	Oct.	55			
Silica, Occurrence, Production & Uses: G. B. Burwinkel, Jr.	Oct.	127			
Silk, J. J.: Shell Molding	Sept.	48			
Simpson, R. L.: Your Foundry Cannot Survive Unless You Develop Administrative Management	Dec.	36			
Singleton, J.: Magnesium Castings	March	39			
Smith, A. J.: Marine Propeller Alloy Development	Jan.	55			
Smith, J. H. & E. E. Braun: Casting Design Conference	Feb.	41			
Smolen, H. & H. Rosenthal: Ultrasonic Attenuation in Cast Aluminum Society of Die Casting Engineers, Officers	May	55			
Sodium Silicate Bonded Sand, Reclaim: G. C. Warneke	June	130			
Solidification Mechanisms of Eutectic & Gray Iron: A. De Sy	Aug.	39			
Solidification Times of Simple Shaped Castings in Sand Molds: J. Berry, V. Kondic & G. Martin	June	95			
Solidifying Metals by Vibration: R. G. Garlick & J. F. Wallace	June	76			
Solomon, A. T. E. Norman & D. V. Doane: Martensitic White Irons for Abrasion-Resistance Castings	April	104			
Solon Foundry Makes Quality Castings: R. L. Hansen	Aug.	26			
Songer, L. W.: Design & Welding of Alloy Cast Steel	May	79			
Squire, N. F.: Quenching Oils & Techniques for Heat Treating	Jan.	76	Taylor, H. F., M. C. Flemings & H. F. Conrad: Aluminum Alloys Fluidity Test	Aug.	86
Stanton, R. R. & W. F. Irwin: Carrier Uses Castings for Air Conditioners	June	32	Taylor, H. F., M. C. Flemings & R. Green: Structural Variables of High Strength Cast Steels	Oct.	84
Starch Content Effect on Rammed Graphitic Mold Material for Casting Titanium: H. W. Antes & R. E. Edelman	March	97	Taylor, H. F., J. E. Niesse & M. C. Flemings: Understanding Fluidity of Metals	Nov.	685
Statistical Controls: B. M. Appelman	Feb.	103	Taylor, J.: Time Study & Methods Training	Sept.	59
Steel Castings: A. B.: Foundry Designing for Steel Castings	Oct.	132	Tempering Molding Sand: H. W. Dietert, V. Rowell & A. L. Graham	Feb.	55
Steel, A. B.: Modernize for Profit	June	55	Tensile Properties of Castings: G. W. Form, P. J. Ahearn & J. F. Wallace	Feb.	45
<b>STEEL</b>					
Austenitic, Mn-V-Mo Age-Hardening: N. C. Howells & E. A. Lange	Sept.	55			
Blowing With Dry Air: J. B. Bridges & G. L. Meeter	Aug.	25			
Cast and Wrought Alloy Properties at Elevated Temperatures: R. K. Buhr & W. A. Morgan	Oct.	61			
Castings, Why and How to Use: C. W. Briggs & G. K. Dreher	March	30			
Castings for Aircraft: Y. J. Elizondo	June	79			
Castings, New Look: W. H. Dunn	Oct.	30			
Castings, Prevent Hot Tears	May	158			
Castings with 250,000 psi Tensile Strength	Aug.	5			
Deoxidation Defects: R. A. Flinn & L. H. Van Vlack	May	5			
Design & Welding, Steam Turbine Castings: L. W. Songer	May	93			
Ductility & Toughness: J. Zotos	Nov.	79			
Ferrous Cast Metals: A. Wittmoser	Dec.	52			
Foundry Designing: A. B. Steck	Oct.	47			
High Strength Castings: K. D. Holmes, J. Zotos & P. J. Ahearn	July	103			
High Strength, Structural Variables: M. C. Flemings, R. Green & H. F. Taylor	Oct.	65			
High Strength, X-ray Quality & Tensile Properties: H. R. Larson, H. W. Lloyd & F. B. Herlihy	Nov.	84			
Hydrogen Determination: C. C. Carson & B. J. Alperin	Feb.	676			
<b>T</b>					
Taylor, H. F., M. C. Flemings & H. F. Conrad: Aluminum Alloys Fluidity Test	Aug.	76			
Taylor, H. F., M. C. Flemings & R. Green: Structural Variables of High Strength Cast Steels	Oct.	32			
Taylor, H. F., J. E. Niesse & M. C. Flemings: Understanding Fluidity of Metals	Nov.	97			
Taylor, J.: Time Study & Methods Training	Sept.	62			
Tempering Molding Sand: H. W. Dietert, V. Rowell & A. L. Graham	Feb.	103			
Tensile Properties of Castings: G. W. Form, P. J. Ahearn & J. F. Wallace	Feb.	132			
<b>TESTING</b>					
Aluminum Alloys Fluidity: M. C. Flemings, H. F. Conrad & H. F. Taylor	Aug.	55			
Bending Techniques for Cast Materials & Structures: J. C. Graddy	March	25			
Cast Surfaces Evaluation for Roughness Standards: E. Swing	May	61			
Fluorescent Penetrant Method for Casting Inspection: A. Lindgren	Oct.	79			
Gas in Aluminum, Rapid Measurement of: H. V. Sulinski & S. Lipson	Jan.	30			
Hot Cracking Test for Light Metal Casting Alloys: E. J. Gamber	April	158			
Mold Material Effect on Cooling Rate & Physical Properties of Cast Metals: Institute of British Foundrymen	Feb.	5			
RAMMING, Superheat & Alloys Effects on Metal Penetration: AFS Committee 8-N	May	93			
Tempering Molding Sand: H. W. Dietert, V. Rowell & A. L. Graham	Feb.	79			
Tentative Hot Shell Deformation: AFS Committee 8-N, R. J. Cowles	Sept.	47			
Understanding Fluidity of Metals: J. E. Niesse, M. C. Flemings & H. F. Taylor	Sept.	65			
Texas Foundries, Inc. Works Smarter: J. R. Irish	Sept.	84			
Thomas, G. F., A. H. Rauch & J. B. Peck: Carbon Flotation in Ductile Iron	May	70			
Thomson, J.: Foundry Plant Engineer	June	676			
Joseph & W. B. Larson: CentraSteel	March	50			
<b>X - Z</b>					
Tichy, O. & R. Kissling: Hypereutectic Aluminum-Silicon Alloy	June	55			
Time Study & Methods Training for Supervisors: J. Taylor	Sept.	59			
Tin Effect on Flake & Nodular Graphite Cast Irons: E. C. Ellwood	July	73			
Titanium Castings from Aluminum Permanent Molds	Feb.	5			
Titanium Castings, Starch Content Effect on Rammed Graphitic Mold Material: H. W. Antes & R. E. Edelman	March	97			
Truckenmiller, W. C.: Diversification of the Customer	May	23			
Turnbull, G. K. & J. F. Wallace: Molybdenum Effect on Gray Iron Elevated Temperature Properties	Jan.	81			
Tyler Pipe & Foundry Co. Modernization: J. H. Schaum	Jan.	36			
<b>U - V</b>					
Ultrasonic Attenuation in Cast Aluminum: H. Smolen & H. Rosenthal	May	55			
Vacuum Degassing at A. Finkl & Sons Co.	Nov.	45			
Valentine, E. S.: Organic Cold Setting Binders	April	154			
Van Vlack, L. H. & R. A. Flinn: Deoxidation Defects in Steel Castings	May	93			
Ventilating Electric Arc Furnaces: D. M. Hysinger	July	30			
Vibrating Metal to Heat Hot Tears	Dec.	30			
Vibration of Solidifying Metals for Grain Refinement: R. G. Garlick & J. F. Wallace	June	86			
Vingas, G. J.: Ramming, Superheat & Alloys Effects on Metal Penetration	Nov.	671			
<b>W</b>					
Wagner Castings Co. Uses Oscillating Conveyors: G. Mott	Oct.	35			
Wallace, J. F., G. W. Form & P. J. Ahearn: Castings Tensile Properties	Feb.	45			
Wallace, J. F. & R. G. Garlick: Grain Refinement of Solidifying Metals by Vibration	June	86			
Wallace, J. F. & G. K. Turnbull: Molybdenum Effect on Gray Iron Elevated Temperature Properties	Jan.	81			
Warneke, G. C.: Reclaim Sodium Silicate Bonded Sand	June	95			
Watch Your Molding Sand: W. C. Scharlow					
Water-Cooled Cupolas: H. Schwengel	Aug.	112			
Watmough, T., P. Gouwens & J. Berry: Press Forged Castings	Oct.	47			
Webb, F. J., C. F. Joseph, W. B. Larson & R. F. Thompson: CentraSteel	March	47			
Weber, H. J.: See SHAPE OF THINGS					
Welding of Alloy Cast Steel: L. W. Songer					
West, T. J. & J. L. Dewey: New Polymer Sand Binder	May	79			
White Iron Castings, Mottling: C. R. Loper, Jr. & R. W. Heine	Nov.	34			
White Irons, Martensitic, for Abrasion-Resistant Castings: T. E. Norman, A. Solomon & D. V. Doane	June	100			
Whiting Corp. Presents Model Foundry	April	104			
Williams, J. T.: Basic Cupola Melting of Ductile Iron	April	136			
Wilson, J. E. & R. C. Shnay: Carbon Injection	Nov.	669			
Wittmoser, A.: International Classification of Ferrous Cast Metals	Dec.	47			
Winget, J. G.: High-Speed Melting	Sept.	44			
Woechke, L. J.: Your Foundry Cannot Survive Unless You Develop Operating Supervisors	Dec.	37			
Work Smarter, Not Harder: J. R. Irish	Sept.	36			
Workmen's Compensation: J. A. Bloomquist	Oct.	33			
<b>X - Z</b>					
X-ray Quality & Tensile Properties in Cast High Strength Steel: H. R. Larson, H. W. Lloyd & F. B. Herlihy	Nov.	676			
Your Foundry Cannot Survive Unless You Develop Administrative Management: B. L. Simpson	Dec.	36			
Your Foundry Cannot Survive Unless You Develop Operating Supervisors: L. J. Woechke	Dec.	37			
Your Foundry Cannot Survive Unless You Develop Technical Personnel: J. H. Culling	Dec.	36			
Zotos, J.: Cast Low Alloy Steels, Ductility & Toughness	Nov.	698			
Zotos, J. K. D. Holmes & P. J. Ahearn: High Strength Steel Castings	July	65			